

KEY TO THE FAMILIES OF FLOWERING PLANTS

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5b	Perianth absent or reduced	Section E (Page 10)
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7a	Perianth in single whorl, may be sepaloid or petaloid	Section I (Page 23)
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8a	Corolla of separate petals	Section G (Page 11)
8b	Corolla of united petals.....	Section H (Page 18)

SECTION A

**(Plants thalloid, not differentiated into stem and leaves,
attached to rocky substratum with rhizoid like structures)**

1a	Free floating minute aquatic herbs; flowers in marginal pouches	Lemnaceae (p.p.)
1b	Submerged or emergent herbs attached to rocky substratum; flowers not in marginal pouches .....	..... 2
2a	Flowers 3-merous; Perianth segments 3; stamens 3 or rarely 2, when 2 then free;ovary 3-locularand 3 stigmas	Tristichaceae
2b	Flowers 2-merous with 2 perianth segments, 1- or 2-stamens with forked filament (anthropodium), and 2 stigmas.....	Podostemaceae

SECTION B

(Leaves absent or reduced or leaves and flowers appear at different times)

1a	Plants with milky latex.....	2
1b	Plants without milky latex.....	4
2a	Flowers bisexual, large, showy; perianth differentiated into calyx and corolla; stamens epipetalous	Apocynaceae (p.p.)
2b	Flowers unisexual, minute, gaudy; perianth not differentiated into calyx and corolla; stamens not epipetalous	3
3a	Stems succulent; inflorescence cyathium or catkin.....	Euphorbiaceae (p.p.)
3b	Stems woody, not succulent; inflorescence hypanthodium.....	Moraceae (p.p.)
4a	Plants aquatic.....	5
4b	Plants otherwise.....	7
5a	Free floating minute herbs; flowers from marginal pouch of thallus ...	Lemnaceae (p.p.)
5b	Submerged or emergent herbs attached or rooted to substratum; flowers not so.....	6
6a	Inflorescence spadix.....	Araceae (p.p.)
6b	Inflorescence not so.....	Amaryllidaceae (p.p.)
7a	Inflorescence spadix.....	Araceae (p.p.)
7b	Inflorescence other than spadix.....	8
8a	Flowers bisexual.....	9
8b	Flowers unisexual.....	40
9a	Pollinia present.....	10
9b	Pollinia absent.....	11
10a	Flowers trimerous; gynostemium present.....	Orchidaceae (p.p.)
10b	Flowers pentamerous; gynostegium present.....	Asclepiadaceae (p.p.)
11a	Inflorescence capitulum.....	Asteraceae (p.p.)
11b	Inflorescence other than capitulum.....	12
12a	Stamens more than 15.....	13
12b	Stamens less than 15.....	20
13a	Petals absent.....	Flacourtiaceae (p.p.)
13b	Petals present.....	14
14a	Gynophore present.....	Capparaceae (p.p.)
14b	Gynophore absent.....	15
15a	Stem succulent, glochidiate; ovary inferior; petals numerous	Cactaceae (p.p.)
15b	Stem woody, not glochidiate; ovary superior; petals 4–6	16
16a	Anthers 1-celled, reniform.....	Bombacaceae (p.p.)
16b	Anthers 2-celled, not reniform.....	17

17a	Ovary inferior.....	18
17b	Ovary superior.....	19
18a	Ovary 4–5-celled, crowned by an annular disk, ovules numerous on axile placenta	Lecythidaceae (p.p.)
18b	Ovary 1-celled, not crowned by disk, ovule solitary on pendulous placenta.....	Alangiaceae (p.p.)
19a	Ovary monocarpellary with marginal placentation; fruit legume	Mimosaceae (p.p.)
19b	Ovary pentacarpellary with parietal placentation; fruit capsule	Cochlospermaceae (p.p.)
20a	Perianth glumaceous	Poaceae (p.p.)
20b	Perianth not glumaceous	21
21a	Flowers 3-merous.....	22
21b	Flowers 4–5-merous.....	24
22a	Ovary superior.....	Liliaceae (p.p.)
22b	Ovary inferior.....	23
23a	Stamens with exerted filaments, anthers versatile; seeds few.....	Amaryllidaceae (p.p.)
23b	Stamens without filaments, anthers basifixed; seeds numerous.....	Burmanniaceae (p.p.)
24a	Flowers actinomorphic.....	25
24b	Flowers zygomorphic.....	35
25a	Scandent or twining shrubs.....	26
25b	Trees or erect shrubs.....	29
26a	Plants armed with prickles.....	Rhamnaceae (p.p.)
26b	Plants unarmed.....	27
27a	Plants stem parasite.....	28
27b	Plants not parasite.....	Vitaceae (p.p.)
28a	Plants herbaceous; stamens epipetalous	Cuscutaceae
28b	Plants wiry not herbaceous; stamens not epipetalous	Cassythaceae
29a	Stamens 10.....	30
29b	Stamens 5.....	31
30a	Shrubs; sepals glabrous; fruit capsular, dehiscent.....	Tamaricaceae (p.p.)
30b	Trees; sepals pubescent; fruit drupaceous, indehiscent	Burseraceae (p.p.)
31a	Shrubs.....	Tamaricaceae (p.p.)
31b	Trees	32
32a	Ovary inferior, 1-celled.....	Combretaceae (p.p.)
32b	Ovary superior, 2–5-celled.....	33
33a	Disk present.....	34
33b	Disk absent.....	Sterculiaceae (p.p.)
34a	Ovary 3-celled; seeds arillate.....	Sapindaceae (p.p.)

34b	Ovary 1-celled; seeds not arillate.....	Anacardiaceae (p.p.)
35a	Stamens 10.....	36
35b	Stamens 4 or less than 4.....	37
36a	Corolla papilionaceous; stamens diadelphous as 9 + 1.....	Fabaceae (p.p.)
36b	Corolla caesalpiniaceous; stamens polyandrous.....	Caesalpiniaceae (p.p.)
37a	Stamens 4; didynamous.....	38
37b	Stamens 1 - 2.....	39
38a	Ovary unilocular.....	Orobanchaceae (p.p.)
38b	Ovary 2– many-locular.....	Scrophulariaceae (p.p.)
39a	Stamen single, anthers spurred.....	Zingiberaceae (p.p.)
39b	Stamen two, anthers not spurred.....	Lentibulariaceae (p.p.)
40a	Perianth absent.....	41
40b	Perianth present.....	43
41a	Parasitic herbs.....	Balanophoraceae (p.p.)
41b	Autotrophic trees.....	42
42a	Branches articulated and grooved.....	Casuarinaceae (p.p.)
42b	Branches neither articulated nor grooved.....	Salicaceae (p.p.)
43a	Perianth differentiated into sepals and petals.....	44
43b	Perianth not differentiated into sepals and petals.....	48
44a	Climbers.....	Vitaceae (p.p.)
44b	Erect shrubs or trees.....	45
45a	Petals united.....	Mimosaceae (p.p.)
45b	Petals free.....	46
46a	Shrubs; disk absent; fruits capsular.....	Tamaricaceae (p.p.)
46b	Tress; disk present; fruits drupaceous.....	47
47a	Fruit 1-seeded.....	Anacardiaceae (p.p.)
47b	Fruits 2–6-seeded.....	Burseraceae (p.p.)
48a	Herbs.....	Balanophoraceae (p.p.)
48b	Shrubs or trees.....	49
49a	Plants armed.....	50
49b	Plants unarmed.....	51
50a	Scandent shrubs armed with prickles.....	Rhamnaceae (p.p.)
50b	Erect shrubs or trees armed with thorns.....	Flacourtiaceae (p.p.)
51a	Shrubs with articulated stem.....	52
51b	Trees without articulated stem.....	53
52a	Wild stem parasites.....	Viscaceae (p.p.)
52b	Exotic not parasites.....	Polygonaceae (p.p.)

53a	Disk present.....	54
53b	Disk absent.....	55
54a	Stamens 5–8; fruit drupaceous.....	Sapindaceae (p.p.)
54b	Stamens numerous; fruit berry.....	Flacourtiaceae (p.p.)
55a	Ovary inferior; 1-celled.....	56
55b	Ovary superior; 2–5-celled.....	57
56a	Sepals 4; stamens 4; fruit dehiscent.....	Tetramelaceae (p.p.)
56b	Sepals 5; stamens 10; fruit indehiscent.....	Combretaceae (p.p.)
57a	Latex present; tepals 2–3; stamens 2 or numerous; ovary 2–4-celled; fruit capsule	Euphorbiaceae (p.p.)
57b	Latex absent; tepals 4–5; stamens 10; ovary 5-celled; fruit follicle	Sterculiaceae (p.p.)

SECTION C

(Leaves obscurely veined)

1a	Flowers bisexual.....	2
1b	Flowers unisexual.....	23
2a	Stamens more than 15	3
2b	Stamens less than 12	4
3a	Herbs; leaves fleshy; sepals 2; styles 3–5-fid.....	Portulacaceae (p.p.)
3b	Shrubs or trees; leaves not fleshy; sepals 4–5; style single.....	Myrtaceae (p.p.)
4a	Flowers zygomorphic.....	5
4b	Flowers actinomorphic.....	8
5a	Pollinia present.....	Orchidaceae (p.p.)
5b	Pollinia absent	6
6a	Stamens 4, didynamous.....	Lamiaceae (p.p.)
6b	Stamens 3, 6 or 8, not didynamous.....	7
7a	Herbs succulent; stamens 3 – 6	32
7b	Herbs not succulent; stamens 8	Polygalaceae (p.p.)
8a	Flowers 3-merous.....	9
8b	Flowers 4–5-merous.....	15
9a	Ovary inferior; ovules numerous.....	33
9b	Ovary superior; ovules few.....	10
10a	Flowers glume bearing	13
10b	Flowers not glume bearing	11
11a	Flowers in dense globose heads subtended by rigid dark brown bracts	Xyridaceae (p.p.)
11b	Flowers other than head and not as above.....	12

12a	Leaves radical; stamens 6.....	Liliaceae (p.p.)
12b	Leaves cauline; stamens 3.....	Lythraceae (p.p.)
13 ^a	Flowers in spikes or spikelets, subtended by chaffy bracts; ovary 1-celled and 1-ovuled.....	..... 14
13b	Flowers in terminal fascicled cymule, not subtended by chaffy bracts; ovary 1–3-celled and 1–3-ovuled.....	Juncaceae (p.p.)
14 ^a	Leaves with closed sheaths; fruit achene or seed free from pericarp ...	Cyperaceae (p.p.)
14b	Leaves with open sheaths; fruit caryopsis or pericarp adhered to seed ..	Poaceae (p.p.)
15 ^a	Perianth present.....	..... 16
15b	Perianth absent.....	Ruppiaceae (p.p.)
16 ^a	Perianth differentiated into sepals and petals.....	..... 17
16b	Perianth not differentiated (or petals absent).....	..... 22
17 ^a	Leaves alternate or basal .....	..... 18
17b	Leaves opposite or whorled .....	..... 20
18 ^a	Leaves glandular all over.....	Droseraceae (p.p.)
18b	Leaves glabrous, not glandular.....	..... 19
19 ^a	Marsh loving plants; leaves not succulent.....	Lythraceae (p.p.)
19b	Plants otherwise; leaves succulent.....	Crassulaceae (p.p.)
20 ^a	Stamens episepalous.....	Lythraceae (p.p.)
20b	Stamens not episepalous.....	..... 21
21a	Plants succulent; stamens 8.....	Crassulaceae (p.p.)
21b	Plants not succulent; stamens 5.....	Caryophyllaceae (p.p.)
22a	Plants submerged aquatics; leaves alternate.....	Potamogetonaceae (p.p.)
22b	Plants emergent aquatics; leaves opposite.....	Lythraceae (p.p.)
23a	Flowers in dense heads subtended by bracts.....	..... 24
23b	Flowers not as above.....	..... 25
24a	Perianth present; stamens 6; ovary 3-celled, 3-ovuled.....	Eriocaulaceae (p.p.)
24b	Perianth absent; stamen single; ovary 1-celled, 1-ovuled.....	Hydatellaceae (p.p.)
25a	Herbs or undershrubs.....	..... 26
25b	Shrubs or trees.....	Euphorbiaceae (p.p.)
26a	Plants with milky latex.....	Euphorbiaceae (p.p.)
26b	Plants without milky latex.....	..... 27
27a	Flowers in spikes or spikelets.....	..... 28
27b	Flowers not as above.....	..... 29
28a	Flowers subtended by chaffy bracts .....	..... 31
28b	Flowers may or may not subtended by herbaceous bracts	Euphorbiaceae (p.p.)
29a	Stamen single.....	..... 30

29b	Stamens 2–8.....	Haloragaceae (p.p.)
30a	Perianth present in male flowers and absent in female flower; style absent.....	Najadaceae (p.p.)
30b	Perianth absent in male flowers and present in female flower; style present.....	Zannicheliaceae (p.p.)
31a	Leaves with closed sheaths; fruit achene or seed free from pericarp...	Cyperaceae (p.p.)
31b	Leaves with open sheaths; fruit caryopsis or seed adhered to pericarp	Poaceae (p.p.)
32a	Bulbous herbs; leaves if present radical	Amaryllidaceae (p.p.)
32b	Herbs without bulbs; leaves if present caulescent	Commelinaceae (p.p.)
33a	Annual herbs; stem not bulbous	Burmanniaceae (p.p.)
33b	Perennial, undershrubs or shrubs; stems bulbous	Amaryllidaceae (p.p.)

SECTION D

(Leaves parallel veined)

1a	Perianth well developed in one or two series.....	..... 2
1b	Perianth reduced or scale like or absent.....	..... 44
2a	Leaves palmate-, pinnati-, or pedatisect; placentation parietal.....	..... 3
2b	Leaves not as above.....	..... 5
3a	Shrubs or trees; leaves palmati- or pinnatisect.....	Arecaceae
3b	Tuberous or rhizomatous herbs or undershrubs; leaves pedatisect ....	..... 4
4a	Flowers densely umbellate on naked scape.....	Taccaceae
4b	Flowers on spiny spadix.....	Araceae (p.p.)
5a	Flowers in dense globose heads.....	..... 6
5b	Flowers not in dense globose heads.....	..... 7
6a	Heads subtended by paleaceous hyaline bracts; perianth straw coloured; flowers unisexual.....	Eriocaulaceae (p.p.)
6b	Heads subtended by rigid dark brown bracts; perianth yellow coloured; flowers bisexual.....	Xyridaceae (p.p.)
7a	Both the perianth series sepaloid.....	Juncaceae (p.p.)
7b	At least inner perianth series petaloid.....	..... 8
8a	Ovary superior.....	..... 9
8b	Ovary inferior.....	..... 28
9a	Stout scapigerous herbs; leaves fibrous.....	Agavaceae (p.p.)
9b	Plants not as above.....	..... 10
10a	Scandent or twining shrubs.....	..... 11
10b	Erect terrestrial herbs, shrubs or trees or aquatic herbs.....	..... 13

11a	Plants armed with prickles; flowers unisexual.....	Smilacaceae
11b	Plants unarmed; flowers bisexual.....	..... 12
12a	Leaves sessile with tip modified into tendril; flowers in laxly branched panicles.....	Flagellariaceae
12b	Leaves with winged petiole, tip not modified into tendril; flowers in spadix	Araceae (p.p.)
13a	Outer as well as inner perianth series petaloid.....	..... 14
13b	Outer perianth series sepaloid and inner perianth series petaloid.....	..... 17
14a	Flowers tetramerous.....	Potamogetonaceae (p.p.)
14b	Flowers trimerous.....	..... 15
15a	Aquatic or marsh loving plants; perianth irregular; stamens 3–6; ovary 1–3- celled.....	Pontederiaceae
15b	Terrestrial plants; perianth regular; stamens 6; ovary 3-celled .....	..... 16
16a	Flowers in spathaceous umbels.....	Alliaceae
16b	Flowers not in umbels.....	Liliaceae (p.p.)
17a	Stamens 1–3.....	..... 18
17b	Stamens 4 or more than 4.....	..... 21
18a	Flowers actinomorphic, unisexual.....	..... 19
18b	Flowers zygomorphic, bisexual.....	..... 20
19a	Submerged hydrophytes; stamen single.....	Najadaceae (p.p.)
19b	Emergent hydrophytes; stamens three.....	Alismataceae (p.p.)
20a	Flowers clustered on middle of phylloclade.....	Liliaceae (p.p.)
20b	Flowers not as above.....	Commelinaceae (p.p.)
21a	Stamens 4.....	Potamogetonaceae (p.p.)
21b	Stamens 6 or more.....	..... 22
22a	Trees.....	..... 23
22b	Herbs.....	..... 24
23a	Leaves alternate.....	Dilleniaceae
23b	Leaves opposite.....	Clusiaceae (p.p.)
24a	Roots fibrous.....	..... 25
24b	Roots tuberous.....	..... 26
25a	Leaves sheathed at base.....	Commelinaceae (p.p.)
25b	Leaves not sheathed at base.....	Alismataceae (p.p.)
26a	Plants with milky latex; stamens 8 or more.....	Butomaceae
26b	Plants without latex; stamens 6.....	..... 27
27a	Flowers in spikes.....	Aponogetonaceae
27b	Flowers in cymes.....	Commelinaceae (p.p.)

28a	Flowers actinomorphic or regular.....	29
28b	Flowers zygomorphic or irregular.....	37
29a	Seeds numerous.....	30
29b	Seeds few.....	31
30a	Submerged aquatic herbs.....	Hydrocharitaceae
30b	Terrestrial herbs.....	Burmanniaceae (p.p.)
31a	Twining undershrubs or shrubs; flowers unisexual; fruits winged	Dioscoreaceae (p.p.)
31b	Erect or scapigerous herbs or shrubs or trees; flowers bisexual; fruits not winged.....	32
32a	Stamens 3–6.....	33
32b	Stamens numerous	Myrtaceae (p.p.)
33a	Stamens 3.....	Iridaceae (p.p.)
33b	Stamens 6.....	34
34a	Scapes woody; leaves fibrous and thick.....	35
34b	Scapes and leaves not as above.....	36
35a	Flowers in dense heads.....	Bromeliaceae
35b	Flowers in large panicles.....	Agavaceae (p.p.)
36a	Leaves plicate; flowers in racemes or rarely solitary.....	Hypoxidaceae
36b	Leaves not plicate; flowers in umbels.....	Amaryllidaceae (p.p.)
37a	Fertile stamens 1–2	38
37b	Fertile stamens 3–6	41
38a	Stamens and styles fused to form column; pollinia present; seeds minute, numerous.....	Orchidaceae (p.p.)
38b	Stamens and styles not fused; pollinia absent; seeds large, few–many...	39
39a	Sepals free; anthers 1-celled.....	40
39b	Sepals connate forming a tube or spathe; anthers 2-celled.....	Zingiberaceae (p.p.)
40a	Ovule single in each locule.....	Marantaceae
40b	Ovules many in each locule.....	Cannaceae
41a	Petals subequal; fertile stamens 3.....	Iridaceae (p.p.)
41b	Petals unequal or only single; fertile stamens 3–6.....	42
42a	Leaves and bracts spirally arranged.....	Musaceae
42b	Leaves and bracts distichously arranged.....	43
43a	Outer tepals equal to inner tepals, the inner two tepals form distinct, sagitate structure; seeds arillate.....	Streltziaceae
43b	Outer tepals larger than inner tepals, the inner two tepals connate into cymbiform structure; seeds exarillate.....	Heliconiaceae
44a	Flowers in spikes or spikelets, subtended by chaffy bracts; ovary 1-	

	celled and 1-ovuled.....	..... 45
44b	Flowers arranged variously, not subtended by bracts; ovary 1–3-celled and 1–3-ovuled.....	..... 46
45a	Leaves with closed sheaths; fruit achene or seed free from pericarp ...	Cyperaceae (p.p.)
45b	Leaves with open sheaths; fruit caryopsis or seeds usually adherent to pericarp	Poaceae (p.p.)
46a	Inflorescence subtended by leafy spathe.....	..... 47
46b	Inflorescence not subtended by leafy spathe.....	..... 50
47a	Monoecious plants.....	..... 48
47b	Dioecious plants.....	..... 49
48a	Inflorescence axis fleshy.....	Araceae (p.p.)
48b	Inflorescence axis not fleshy.....	Typhaceae
49a	Male as well as female inflorescence spadix.....	Araceae (p.p.)
49b	Male flowers in panicles and female in globose heads.....	Pandanaceae
50a	Floating minute herbs; flowers minute from marginal pouch of thallus.....	Lemnaceae (p.p.)
50b	Rooted submerged aquatic herbs; flowers in leaf axils or in spikes.....	..... 51
51a	Flowers bisexual; stamens 2.....	Ruppiaceae (p.p.)
51b	Flowers unisexual; stamen single.....	..... 52
52a	Flowers in heads, ovary with stigmatic filaments.....	Hydatellaceae(p.p.)
52b	Flowers and ovary not as above.....	..... 53
53a	Leaves with entire margin; achenes more than two.....	Zannichelliaceae(p.p.)
53b	Leaves with serrate margin; achene solitary	Najadaceae (p.p.)

SECTION E (Perianth Absent)

1a	Inflorescence of spadix type.....	Araceae (p.p.)
1b	Inflorescence other than spadix type .....	.....2
2a	Plants achlorophyllous, root parasites	Balanophoraceae (p.p.)
2b	Plants chlorophyllous or autotrophic, not root parasites .....	.....3
3a	Inflorescence cyathium; fruits 3-parted schizocarps	Euphorbiaceae (p.p.)
3b	Inflorescence not a cyathium; fruits not as above .....	.....4
4a	Leaves reduced to scales	Casuarinaceae (p.p.)
4b	Leaves well developed .....	.....5
5a	Prostrate or climbing undershrubs; leaves 3–5- parallel nerved	Piperaceae

5b	Erect shrubs or trees; leaves not as above	6
6a	Flowers in catkins or in hypanthodium inflorescences	7
6b	Flowers in spikelets	9
7a	Fruits 2- or 3-valved capsules	8
7b	Fruits fleshy, indehiscent	Moraceae (p.p.)
8a	Fruits 2-valved capsules; seeds comose	Salicaceae (p.p.)
8b	Fruits 3-valved capsules; seeds not comose	Euphorbiaceae (p.p.)
9a	Leaves with closed sheaths; fruit achene or seed free from pericarp ...	Cyperaceae (p.p.)
9b	Leaves with open sheaths; fruit caryopsis or seeds usually adherent to pericarp	Poaceae (p.p.)

SECTION F

(Perianth spirally arranged, not differentiated into calyx and corolla)

1a	Plants aquatic.....	2
1b	Plants terrestrial.....	3
2a	Carpels confluent with the disk into one ovary; ovules numerous.....	Nymphaeaceae
2b	Carpels irregularly scattered, sunk in the pits in the turbinate disk; ovules 1–2	Nelumbonaceae (p.p.)
3a	Trees with woody stem; gynoecium apocarpous; ovary superior	Magnoliaceae
3b	Shrubs with succulent stem; gynoecium syncarpous, ovary inferior	Cactaceae (p.p.)

SECTION G

(Perianth in 2 or more whorls and clearly differentiated into calyx and corolla) (Corolla of separate petals)

1a	Flowers bisexual or sometimes mixed with unisexual flowers	2
1b	Flowers unisexual	114
2a	Stamens more than 15	3
2b	Stamens less than 15	35
3a	Ovary superior	4
3b	Ovary inferior	28
4a	Hypogynous disk present	5
4b	Hypogynous disk absent	7
5a	Leaves with glandular stipules	Resedaceae (p.p.)
5b	Leaves exstipulate	6
6a	Leaves palmately 3–5-lobed	Cochlospermaceae (p.p.)
6b	Leaves simple, unlobed	118

7a	Gynoecium of free carpels	8
7b	Gynoecium of united carpels	10
8a	Plants aquatic	Nelumbonaceae (p.p)
8b	Plants terrestrial	9
9a	Herbs or climbers; style persistent	Ranunculaceae (p.p.)
9b	Shrubs or trees; style not persistent	Annonaceae
10a	Stamens monadelphous or in bundles	11
10b	Stamens distinct or nearly so	18
11a	Stamens monadelphous	12
11b	Stamens in bundles	15
12a	Anthers 1-celled	13
12b	Anthers 2-celled	14
13a	Leaves simple	Malvaceae (p.p.)
13b	Leaves digitate	Bombacaceae (p.p.)
14a	Fruits with stiff spines and barbs	Sterculiaceae (p.p.)
14b	Fruits without any spines and barbs	Ternstroemiaceae (p.p.)
15a	Leaves petiolate, alternate	16
15b	Leaves sessile, opposite or in whorls	Hypericaceae
16a	Leaves simple.....	17
16b	Leaves digitately compound	Bombacaceae (p.p.)
17a	Leaves subequal	Theaceae
17b	Leaves unequal	Malvaceae (p.p.)
18a	Sepals 2-3.....	19
18b	Sepals 4, 5 or more	20
19a	Leaves succulent, not spinescent	Portulacaceae (p.p.)
19b	Leaves spinescent, not succulent	Papaveraceae
20a	Placentation parietal	22
20b	Placentation axile or basal, never parietal	21
21a	Petals valvate	Elaeocarpaceae
21b	Petals imbricate	Tilliaceae (p.p.)
22a	Herbs	Cleomaceae (p.p.)
22b	Shrubs or trees	23
23a	Plants with yellow sap	24
23b	Plants without yellow sap	25
24a	Leaves alternate	Bixaceae
24b	Leaves opposite	Clusiaceae (p.p.)
25a	Fruits single seeded	27

25b	Fruits many seeded26
26a	Ovary raised on gynophore	Capparaceae (p.p.)
26b	Ovary not raised on gynophore	Flacourtiaceae (p.p.)
27a	Scandent shrubs with hooks	Ancistrocladaceae (p.p.)
27b	Trees or shrubs, then without hooks	Dipterocarpaceae (p.p.)
28a	Stem articulated, succulent, armed or unarmed	Cactaceae (p.p.)
28b	Stem not as above29
29a	Shrubs with sheathing petiole; leaves compound; inflorescence umbels	Araliaceae (p.p.)
29b	Trees without sheathing petiole; leaves simple; inflorescence other than umbels30
30a	Leaves alternate31
30b	Leaves opposite33
31a	Fruits single-seeded	Barringtoniaceae (p.p.)
31b	Fruits 2-many-seeded32
32a	Leaves gland dotted	Myrtaceae (p.p.)
32b	Leaves not gland dotted	Lecythidaceae (p.p.)
33a	Cultivated shrubs usually armed with thorns; with axile as well as parietal placentation	Punicaceae (p.p.)
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52a	Leaves opposite	Zygophyllaceae (p.p.)
52b	Leaves alternate	53
53a	Stamens 4–5; fruit drupaceous	Vitaceae (p.p.)
53b	Stamens 10; fruit capsular	54
54a	Leaves simple; seeds few	Linaceae (p.p.)
54b	Leaves compound; seeds numerous	Oxalidaceae
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55b	Leaves not gland dotted	57
56a	Leaves pinnate; stamens 5; fruit capsular; seeds winged	Flindersiaceae
56b	Plants not with above combinations of characters	Rutaceae (p.p.)
57a	Leaves alternate	59
57b	Leaves opposite	58
58a	Shrubs or twinnings; leaves simple	Malpighiaceae (p.p.)
58b	Trees; leaves odd pinnate	Staphyleaceae
59a	Leaves simple or compound but not 2-foliolate	60
59b	Leaves 2-foliolate	Balanitaceae
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73b	Sepals unequal; stamens 5-874
74a	Stamens 5	Balsaminaceae (p.p.)
74b	Stamens 8	Polygalaceae (p.p.)
75a	Leaves dissected into linear segments; sepals 2	Fumariaceae
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76a	Herbs; sepals 5; placentas 3	Violaceae
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78b	Shrubs or trees; sepals 4; petals 5; stamens 6; ovary 2-celled	Xanthophyllaceae
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89b	Shrubs or trees91
90a	Stamens 6, tetradynamous	Brassicaceae (p.p.)
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91a	Stamens 5	Pittosporaceae
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99a	Tendrilar climbers; anthers 1-celled	Cucurbitaceae (p.p.)
99b	Erect herbs, shrubs or trees; anthers 2-celled100
100a	Aquatic plants; flowers uni-or-bi-sexual101
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101a	Flowers unisexual; fruits unarmed	Haloragaceae (p.p.)
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102a	Flowers in umbels; fruits schizocarpic, unarmed	Apiaceae (p.p.)
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104a	Plants herbaceous; aromatic, fruits dry, schizocarpic	Apiaceae (p.p.)
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105a	Leaves alternate	Araliaceae (p.p.)
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106a	Plants insectivorous; leaves in rosettes with stalked glands	Droseraceae (p.p.)
106b	Plants not insectivorous; leaves not as above107
107a	Flowers in spikes, heads or panicles	Combretaceae (p.p.)
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108b	Plants not succulent109
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112a	Disk present; capsules not pointed at apex	Onagraceae
112b	Disk absent; capsules pointed at apex	Campanulaceae (p.p.)
113a	Wild plants; leaves narrow; flowers 4-merous.....	Vahliaceae
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114a	Leaves alternate115

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116b	Petals and fruits not as above117
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117b	Leaves without spinulose teeth at tip120
118a	Leaves gland dotted, with dentate margin; ovary entire	Rutaceae (p.p.)
118b	Leaves gland dotted, with dentate margin; Ovary deeply 2–6-lobed	Ochnaceae (p.p.)
119a	Leaves compound	Burseraceae (p.p.)
119b	Leaves simple	Anacardiaceae (p.p.)
120a	Ovary unilocular	Anacardiaceae (p.p.)
120b	Ovary 3-locular	Euphorbiaceae (p.p.)
121a	Leaves opposite	Celastraceae (p.p.)
121b	Leaves alternate	Anacardiaceae (p.p.)
122a	Stamens 10 or less	Meliaceae (p.p.)
122b	Stamens 15	Tilliaceae (p.p.)
123a	Ovary 4–5-locular	Anacardiaceae (p.p.)
123b	Ovary 3-locular	Sapindaceae (p.p.)

SECTION H

(Perianth in 2 or more whorls and clearly differentiated into calyx and corolla)
(Corolla of united petals)

1a	Flowers bisexual or sometimes mixed with unisexual flowers .....	..... 12
1b	Flowers unisexual .....	..... 2
2a	Leaves alternate .....	..... 4
2b	Leaves opposite .....	..... 3
3a	Ovary inferior	Punicaceae (p.p.)
3b	Ovary superior .....	..... 87
4a	Succulent herbs	Begoniaceae (p.p.)
4b	Plants otherwise .....	..... 5
5a	Climbers or twiners .....	..... 6
5b	Trees or shrubs .....	..... 8
6a	Twiners; inflorescence cauliflorous	Menispermaceae (p.p.)
6b	Climbers; inflorescence not cauliflorous .....	..... 7
7a	Anthers sinuous; ovary inferior	Cucurbitaceae (p.p.)
7b	Anthers normal; ovary superior	Passifloraceae (p.p.)

8a	Leaves large with hollow petiole (only male flowers)	Caricaceae (p.p.)
8b	Leaves not as above .....	.....9
9a	Corolla rotate .....	.....10
9b	Corolla tubular (hypocrateriform) .....	.....11
10a	Fruits single seeded	Olacaceae (p.p.)
10b	Fruits 3–6-seeded	Aquifoliaceae (p.p.)
11a	Stipules present	Euphorbiaceae (p.p.)
11b	Stipules absent	Ebenaceae
12a	Petals united for maximum length .....	..... 22
12b	Petals only connate at base .....	..... 13
13a	Stamens less than 15 .....	.....14
13b	Stamens more than 15 .....	.....16
14a	Stamens 4–5 .....	..... 88
14b	Stamens 8–12 .....	.....15
15a	Herbs; sepals not enlarging in fruit; fruit dehiscent	Portulacaceae (p.p.)
15b	Scandent shrubs; sepals enlarging in fruit; fruit indehiscent	Ancistrocladaceae (p.p.)
16a	Ovary superior .....	.....17
16b	Ovary inferior .....	.....21
17a	Herbs; ovary 1-celled	Portulacaceae (p.p.)
17b	Shrubs or trees; ovary 2–5-celled .....	.....18
18a	Anthers 1-celled .....	.....19
18b	Anthers 2-celled .....	.....20
19a	Leaves simple	Malvaceae (p.p.)
19b	Leaves digitately compound	Bombacaceae (p.p.)
20a	Disk present; fruits not winged	Ternstroemiaceae (p.p.)
20b	Disk absent; fruits winged	Dipterocarpaceae (p.p.)
21a	Fruits single-seeded	Barringtoniaceae (p.p.)
21b	Fruits many-seeded	Lecythidaceae (p.p.)
22a	Flowers in capitulum inflorescence.....	Asteraceae (p.p.)
22b	Flowers in other than capitulum inflorescence.....	..... 23
23a	Fruits legume or lomentum.....	Mimosaceae (p.p.)
23b	Fruits not legume or lomentum.....	.....24
24a	Ovary inferior.....	..... 25
24b	Ovary superior .....	.....37
25a	Stamens definite.....	.....29
25b	Stamens indefinite .....	..... 26
26a	Leaves alternate.....	..... 27

26b	Leaves opposite.....	.....28
27a	Wild plants; leaves with serrate margins.....	Symplocaceae
27b	Cultigens; leaves with entire margins	Myrtaceae (p.p.)
28a	Wild plants; not armed with thorns.....	Myrtaceae (p.p.)
28b	Cultigens; armed with thorns.....	Punicaceae (p.p.)
29a	Leaves alternate.....	.....30
29b	Leaves opposite and / or whorled.....	.....34
30a	Flowers actinomorphic.....	.....31
30b	Flowers zygomorphic .....	.....32
31a	Herbs, undershrubs or shrubs; ovary 2–10-celled; ovules numerous ...	Campanulaceae (p.p.)
31b	Trees; ovary 1-celled, 1-ovuled.....	Mastixiaceae (p.p.)
32a	Herbs or undershrubs; anthers united.....	.....33
32b	Small trees; anthers distinct.....	Goodeniaceae
33a	Stamens 2	Stylidiaceae
33b	Stamens 5	Lobeliaceae
34a	Leaves stipulate.....	Rubiaceae (p.p.)
34b	Leaves exstipulate .....	.....35
35a	Ovary 1-celled, 1-ovuled	Mastixiaceae (p.p.)
35b	Ovary 2–10-celled, 1–many-ovuled .....	.....36
36a	Erect shrubs or trees.....	Caprifoliaceae
36b	Twining undershrubs.....	Rubiaceae (p.p.)
37a	Ovaries 2-many of united carpels.....	.....40
37b	Ovaries two, nearly or quite separate at maturity.....	.....38
38a	Pollinia present.....	.....39
38b	Pollinia absent	Apocynaceae (p.p.)
39a	Filaments distinct, anthers not united with stigma.....	Periplocaceae
39b	Filaments connate into a tube, anthers united with stigma	Asclepiadaceae (p.p.)
40a	Plants succulent.....	Crassulaceae (p.p.)
40b	Plants not succulent .....	.....41
41a	Androphore present.....	Passifloraceae (p.p.)
41b	Androphore absent.....	.....42
42a	Stamens as many as corolla lobes and opposite to them or more than corolla lobes.....	.....43
42b	Stamens as many as corolla lobes and alternate to them or less than corolla lobes.....	.....47
43a	Placentation free central.....	.....44
43b	Placentation axile or basal.....	.....45

44a	Herbs.....	Primulaceae
44b	Shrubs or trees.....	Myrsinaceae
45a	Trees with milky latex; placentation axile.....	Sapotaceae
45b	Undershubs or shrubs without latex; placentation basal or pendulous	46
46a	Erect shrubs.....	Plumbaginaceae
46b	Scandent shrubs.....	Olacaceae (p.p.)
47a	Ovary unilocular.....	48
47b	Ovary 2-many- locular.....	60
48a	Flowers actinomorphic.....	55
48b	Flowers zygomorphic.....	49
49a	Root parasites; leaves reduced.....	Orobanchaceae (p.p.)
49b	Autotrophic plants; leaves well developed.....	50
50a	Leaves alternate.....	51
50b	Leaves opposite.....	52
51a	Sepals 2; stamens 2.....	Lentibulariaceae (p.p.)
51b	Sepals 5; stamens 4.....	Gesneriaceae (p.p.)
52a	Leaves simple.....	53
52b	Leaves compound.....	Bignoniaceae (p.p.)
53a	Ovules 2	Martyniaceae (p.p.)
53b	Ovules numerous.....	54
54a	Herbs or undershrubs; flowers 3–4-merous	Gentianaceae (p.p.)
54b	Shrubs or trees; flowers 5-merous	Bignoniaceae (p.p.)
55a	Leaves alternate	56
55b	Leaves opposite	58
56a	Aquatic herbs.....	Menyanthaceae
56b	Terrestrial plants.....	57
57a	Annual herbs	Hydrophyllaceae
57b	Shrubs or trees.....	Olacaceae (p.p.)
58a	Annual herbs or undershrubs	89
58b	Shrubs or trees.....	59
59a	Stamens 4; fruit drupaceous or berry	Salvadoraceae (p.p.)
59b	Stamens 5; fruit capsular.....	Celastraceae (p.p.)
60a	Flowers actinomorphic.....	61
60b	Flowers zygomorphic	76
61a	Stamens two.....	Oleaceae (p.p.)
61b	Stamens 4–6	62
62a	Ovules 2–8	63

62b	Ovules more than 8	69
63a	Herbs or shrubs, erect or twining	64
63b	Trees.....	68
64a	Flowers 4-merous.....	65
64b	Flowers 5-merous	66
65a	Leaves aromatic; fruit schizocarpic.....	Lamiaceae (p.p.)
65b	Leaves not aromatic; fruit capsular	Plantaginaceae
66a	Fruits winged.....	Symphoremataceae (p.p.)
66b	Fruits not winged	67
67a	Fruits indehiscent, usually berry	91
67b	Fruits schizocarpic or capsular	92
68a	Leaves alternate or subopposite.....	Boraginaceae (p.p.)
68b	Leaves opposite or whorled	Verbenaceae (p.p.)
69a	Ovary 3-locular.....	Polemoniaceae
69b	Ovary 2–4 or more -locular	70
70a	Leaves alternate.....	71
70b	Leaves opposite	72
71a	Flowers in cymes; ovary superior	Solanaceae
71b	Flowers in spikes; ovary inferior	Sphenocleaceae
72a	Leaves 3–5-nerved	73
72b	Leaves not 3–5-nerved	75
73a	Ovary 1-celled; leaves not connected by transverse line	Gentianaceae (p.p.)
73b	Ovary 2-celled; leaves connected by transverse line	74
74a	Small herbs; fruit capsular	Spigelliaceae
74b	Shrubs or trees; fruit drupaceous	Loganiaceae
75a	Plants with lepidote, stellate or glandular tomentum	Buddlejaceae
75b	Plants not as above	Scrophulariaceae (p.p.)
76a	Fruits schizocarpic or drupaceous; seeds 2–4	77
76b	Fruits capsule or berry; seeds 2–many	80
77a	Ovary entire	78
77b	Ovary deeply 4-lobed	79
78a	Fruits single seeded; mangroves	Avicenniaceae
78b	Fruits 2–4-seeded; not mangroves	Verbenaceae (p.p.)
79a	Style gynobasic	Lamiaceae (p.p.)
79b	Style terminal	Verbenaceae (p.p.)
80a	Leaves compound	Bignoniaceae (p.p.)
80b	Leaves simple	81

81a	Petioles and pedicels with large, sessile glands or leaves stipulate	82
81b	Petioles and pedicels without glands, or leaves exstipulate	83
82a	Ovules 2	Martyniaceae (p.p.)
82b	Ovules numerous	Pedaliaceae
83a	Leaves alternate	Scrophulariaceae (p.p.)
83b	Leaves opposite	84
84a	Bracts and bracteoles absent or reduced.....	Scrophulariaceae (p.p.)
84b	Bracts and bracteoles conspicuous.....	85
85a	Shrubs or trees; seeds numerous, winged	Bignoniaceae (p.p.)
85b	Herbs, undershrubs or twinnings; seeds 2 – 10, not winged	86
86a	Plants erect or sub-erect	Acanthaceae
86b	Plants climbing	Thunbergiaceae
87a	Wild plants; stamens 4–6	Rubiaceae (p.p.)
87b	Cultigens; stamens numerous	Punicaceae
88a	Inter petiolar stipule present	Rubiaceae (p.p.)
88b	Inter petiolar stipule absent	Celastraceae (p.p.)
89a	Leaves simple or compound, alternate; interpetiolar stipules absent	Leeaceae (p.p.)
89b	Leaves simple, opposite; interpetiolar stipules present	Rubiaceae (p.p.)
90a	Leaves 3–5-nerved, exstipulate	Gentianaceae (p.p.)
90b	Leaves penninerved, stipulate	Rubiaceae (p.p.)
91a	Twinnings	Convolvulaceae (p.p.)
91b	Erect herbs or shrubs	Verbenaceae (p.p.)
92a	Erect herbs; fruits schizocarpic	Boraginaceae (p.p.)
92b	Twinnings; fruits capsular	Convolvulaceae (p.p.)

SECTION I

(Perianth in single whorl, may be sepaloid or petaloid)

1a	Plants achlorophyllous.....	Balanophoraceae (p.p.)
1b	Plants chlorophyllous.....	2
2a	Plants stem parasites.....	3
2b	Plants otherwise.....	4
3a	Flowers bisexual; perianth limb tubular; anther dehiscence longitudinal	Loranthaceae
3b	Flowers unisexual; perianth limb campanulate; anther dehiscence other than longitudinal.....	Viscaceae (p.p.)
4a	Ovary inferior.....	5
4b	Ovary superior.....	12

5a	Flowers actinomorphic; ovary 1–4-celled.....	6
5b	Flowers zygomorphic; ovary 6-celled.....	Aristolochiaceae
6a	Stamens 2–8	7
6b	Stamens 10 or more than 10.....	10
7a	Fruits winged.....	Hernandiaceae
7b	Fruits not winged.....	8
8a	Herbs, shrubs or trees	9
8b	Climbers.....	Passifloraceae (p.p.)
9a	Aquatic plants	Haloragaceae (p.p.)
9b	Terrestrial plants	54
10a	Stamens 10.....	Combretaceae (p.p.)
10b	Stamens 20 or more.....	11
11a	Leaves alternate; sepals 5: ovules two; fruit 2-seeded drupe.....	Rosaceae (p.p.)
11b	Leaves opposite; sepals 4: ovules numerous; fruit many seeded berry	Sonneratiaceae
12a	Flowers in catkins or hypanthodium inflorescence.....	Moraceae (p.p.)
12b	Flowers neither in catkins nor in hypanthodium inflorescence.....	13
13a	Flowers unisexual or polygamous.....	14
13b	Flowers bisexual.....	30
14a	Leaves digitately or pinnately compound.....	15
14b	Leaves simple.....	17
15a	Dioecious herbs; leaves opposite.....	Cannabaceae
15b	Monoecious trees; leaves alternate.....	16
16a	Leaves digitately compound; fruits dehiscent.....	Sterculiaceae (p.p.)
16b	Leaves pinnately compound; fruits indehiscent.....	Sapindaceae (p.p.)
17a	Twinnings.....	18
17b	Erect herbs, shrubs or trees.....	19
18a	Woody twinnings, stem and leaves glabrous.....	Menispermaceae (p.p.)
18b	Herbaceous twinnings; stem and leaves with stinging hairs.....	Euphorbiaceae (p.p.)
19a	Leaves alternate.....	21
19b	Leaves opposite or whorled	20
20a	Trees with thick coriaceous leaves.....	Clusiaceae (p.p.)
20b	Herbs or shrubs with membranous leaves.....	56
21a	Ovary 1–2-locular.....	22
21b	Ovary 3–6- or more -locular.....	27
22a	Perianth lobes scarious.....	Amaranthaceae (p.p.)
22b	Perianth lobes not scarious.....	23
23a	Plants armed with prickles.....	Rhamnaceae (p.p.)

23b	Plants not armed.....	24
24a	Anthers reversed in bud condition.....	Urticaceae
24b	Anthers erect in bud condition.....	25
25a	Herbs or twiners.....	26
25b	Shrubs or trees.....	Ulmaceae
26a	Erect herbs.....	Chenopodiaceae (p.p.)
26b	Herbaceous twinnings.....	Basellaceae (p.p.)
27a	Ovary 3-locular.....	28
27b	Ovary 5-locular.....	29
28a	Fruit winged, papery.....	Sapindaceae (p.p.)
28b	Fruit neither winged nor papery.....	Euphorbiaceae (p.p.)
29a	Carpels separating at maturity.....	Sterculiaceae (p.p.)
29b	Carpels not separating at maturity.....	Flacourtiaceae (p.p.)
30a	Trees.....	31
30b	Herbs, shrubs or climbers	36
31a	Leaves simple.....	33
31b	Leaves pinnately compound; fruit a legume.....	32
32a	Posterior tepals outermost; stamens polyandrous	Caesalpiniaceae (p.p.)
32b	Posterior tepals innermost; stamens in bundles	Fabaceae (p.p.)
33a	Leaves entire.....	34
33b	Leaves pinnatisect.....	Proteaceae
34a	Fruit dehiscent, splitting by valves.....	Myristicaceae
34b	Fruit indehiscent	35
35a	Anthers 2-celled	Oleaceae (p.p.)
35b	Anthers 4-celled	Lauraceae
36a	Leaves with ochreate stipules or plants climbing by means of inflorescence bearing tendrils.....	Polygonaceae (p.p.)
36b	Leaves exstipulate and /or stipules and plants not as above.....	37
37a	Plants covered with silvery white scales.....	Elaeagnaceae
37b	Plants not covered with silvery white scales.....	38
38a	Polycarpellary apocarpus	Ranunculaceae (p.p.)
38b	Polycarpellary syncarpus or monocarpellary	39
39a	Perianth tubular.....	40
39b	Perianth only basally connate.....	42
40a	Stamens uniseriate.....	41
40b	Stamens 4-seriate	Thymellaceae
41a	Herbs or undershrubs; stem with articulated nodes; leaves opposite	Nyctaginaceae (p.p.)

41b	Shrubs or small trees; stem not with articulated nodes; leaves alternate	Opiliaceae
42a	Leaves opposite or whorled.....	43
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